

## **ABSTRACT**

A carbon nano-tube field emission display has a plurality of strip shaped gate, wherein the strip shaped gate of the triode structure is now in place of the conventional hole shaped gate, moreover, pluralities of cathode electrons are induced by the electric force from the side of the gate. Therefore, when the carbon nano-tube electron emission source emits electrons, which is controlled under the strip shaped gate, and the diffusion direction of the electron beam is confined in the same direction. Consequently, controlling the image pixel and using the particular advantage of triode-structure field emission display significantly improve the image uniformity and the luminous efficiency.